

FIG.1

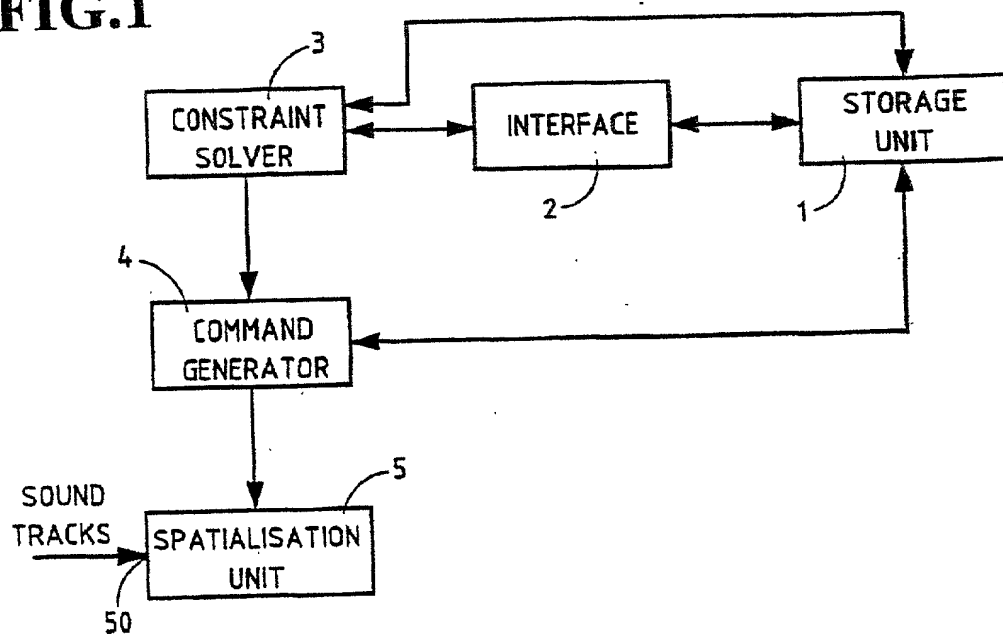


FIG.2

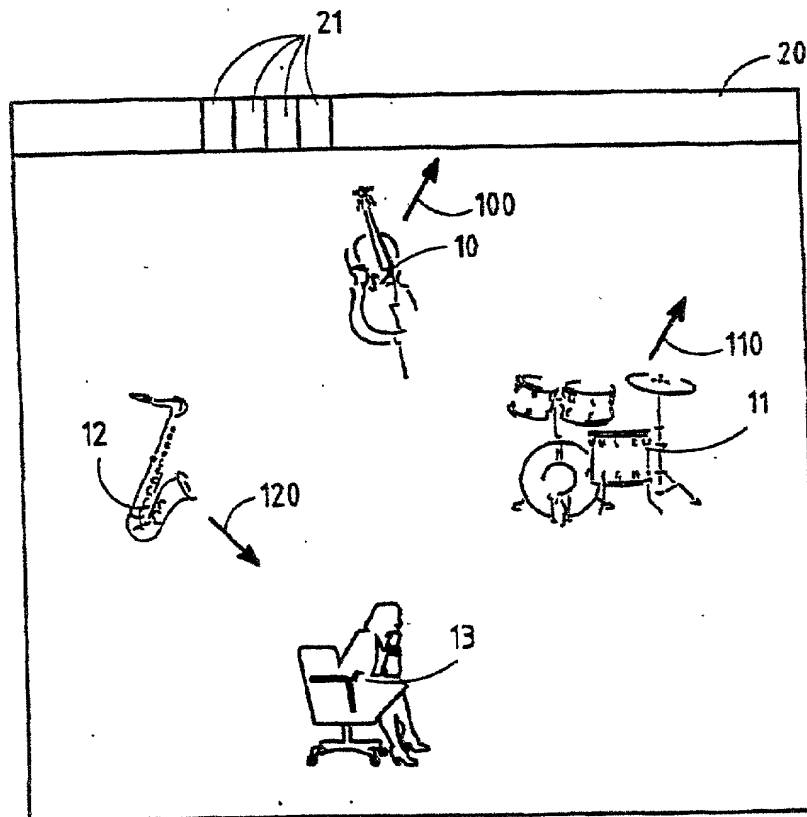


FIG.3A

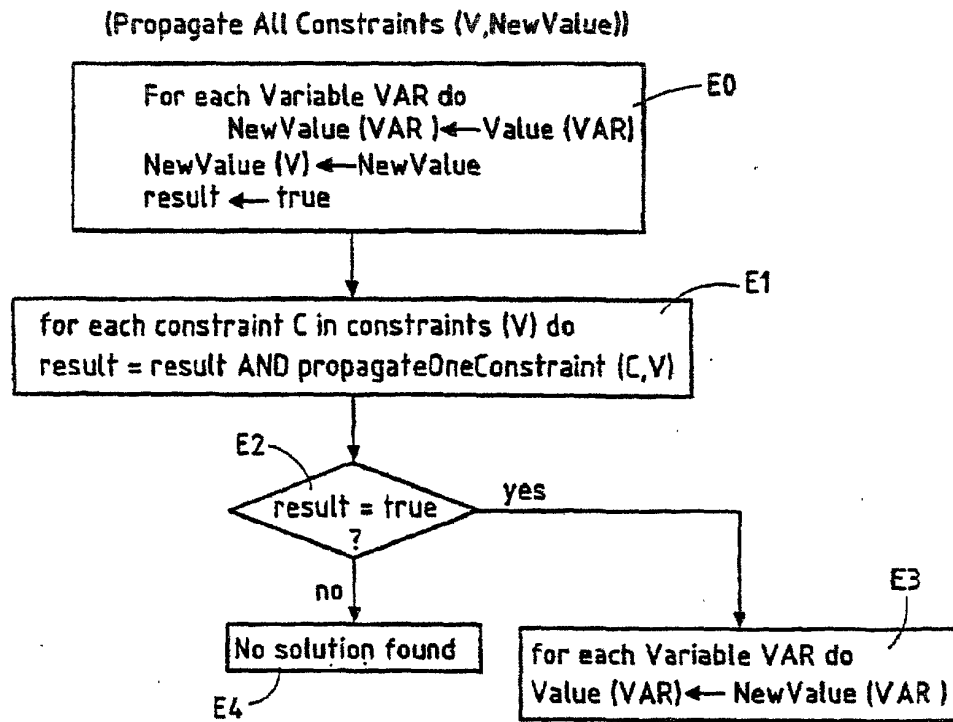


FIG.3B

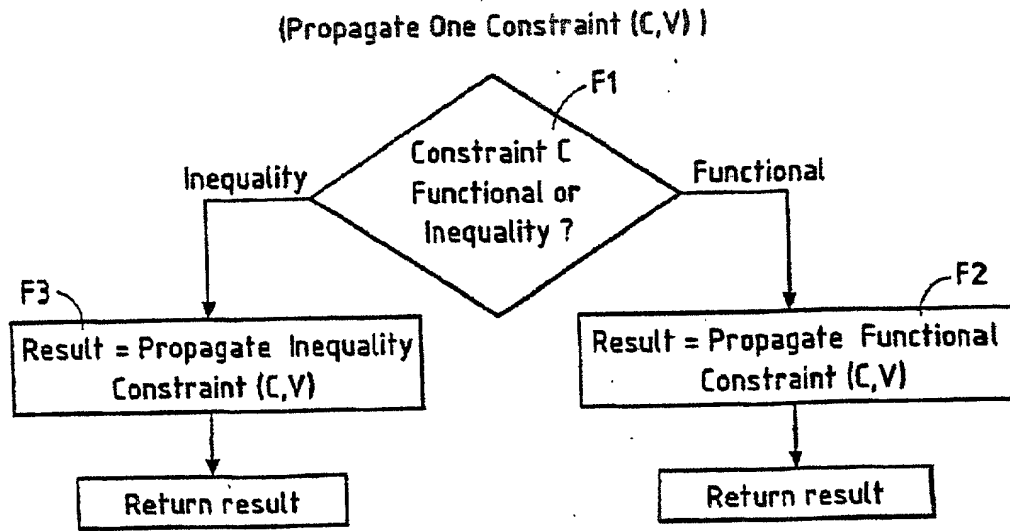


FIG.3C

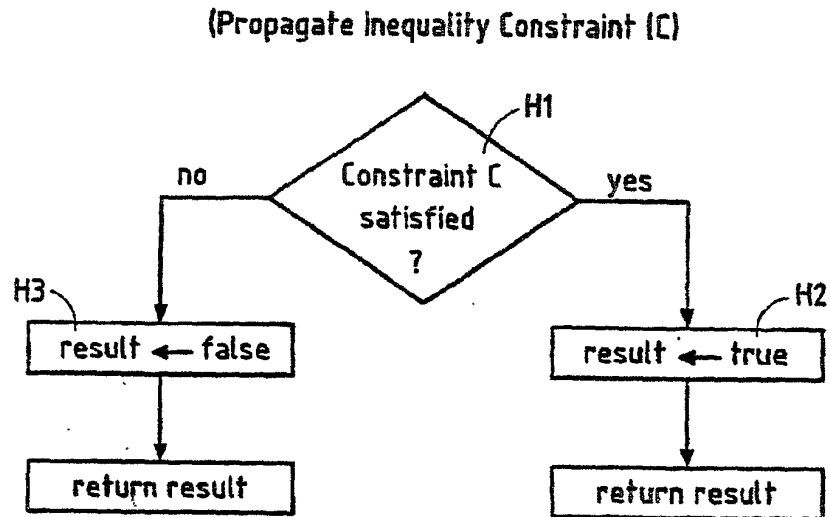


FIG.3D

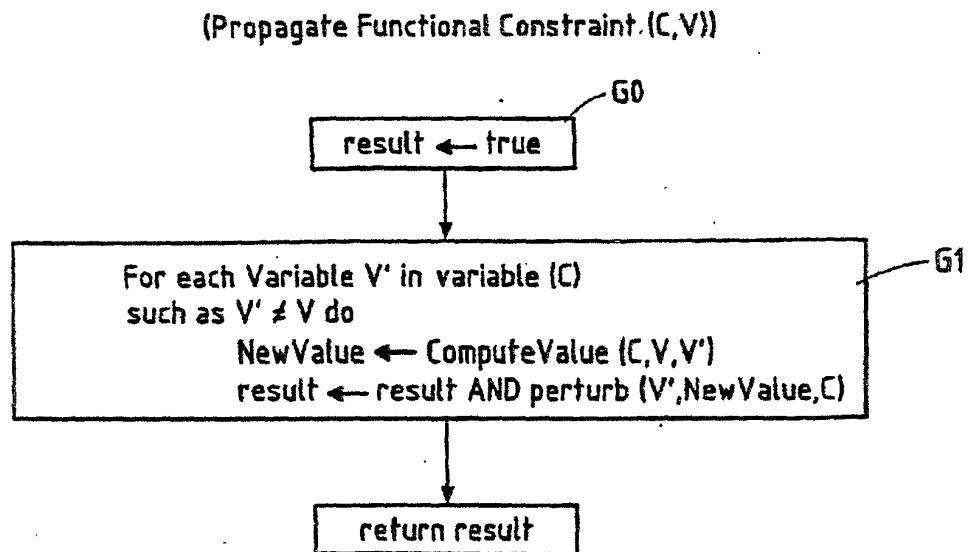


FIG.3E

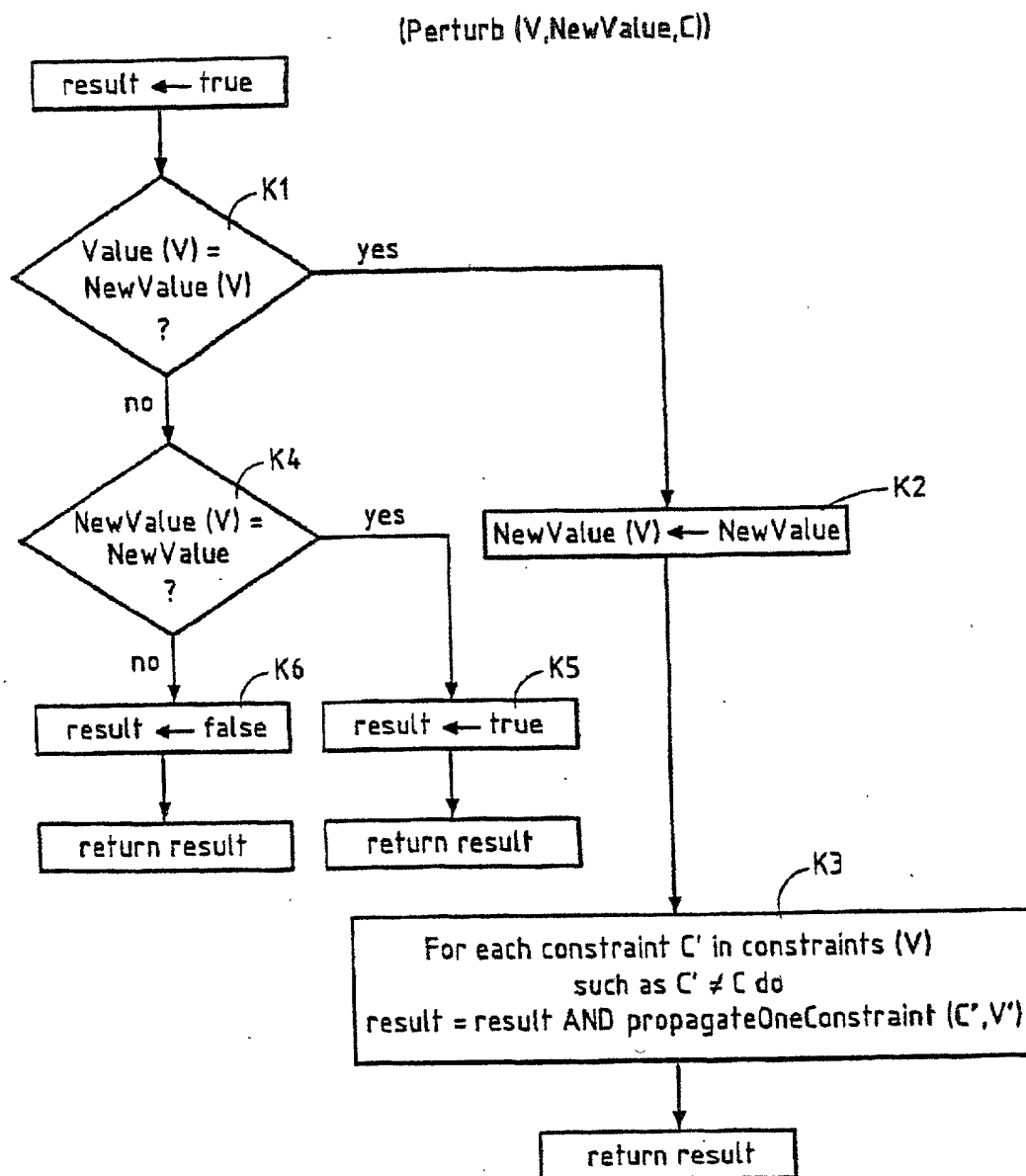


FIG.4

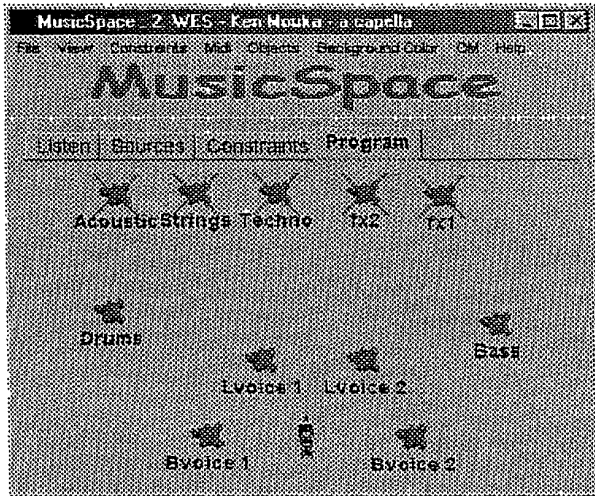


FIG.5

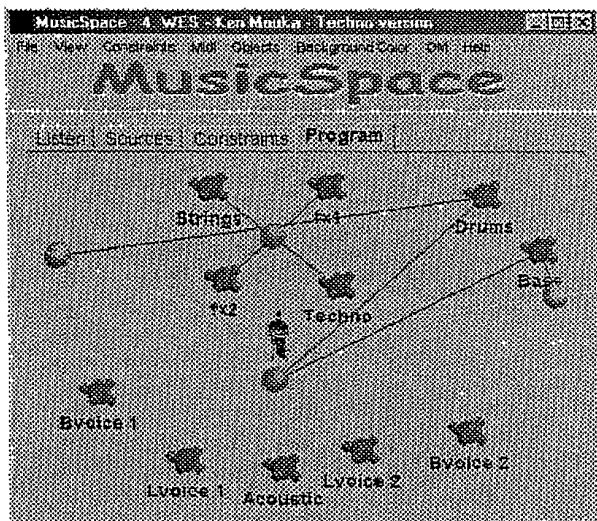


FIG.6

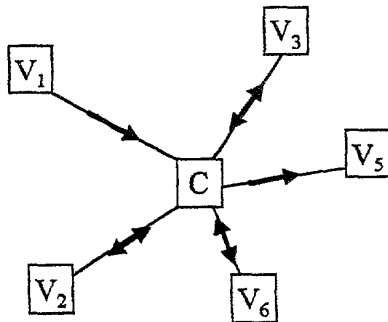


FIG.7

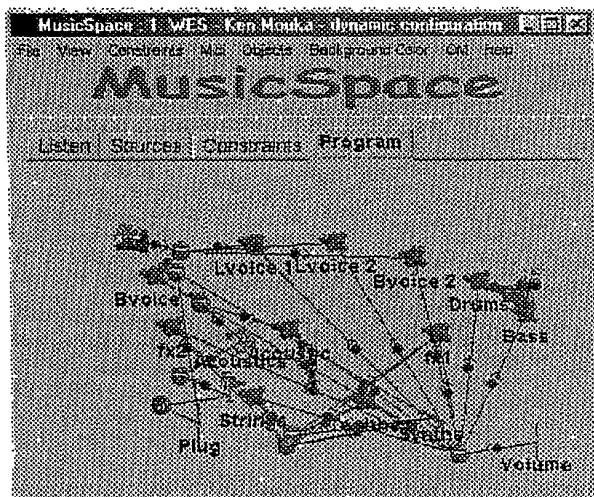


FIG.9

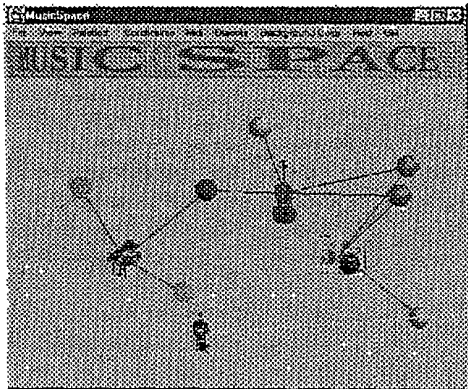


FIG.10

PropagateFunctionalConstraint(C, v)

result = true



for each variable v' in variables(C),
such that ($v' \neq v$ AND isInput(V) AND isOutput(V'))
 new-value = computeValue(C, v' , v)
 result = result AND perturbate(v' , new-value, C)



endfor



return result

FIG.11

General dataflow

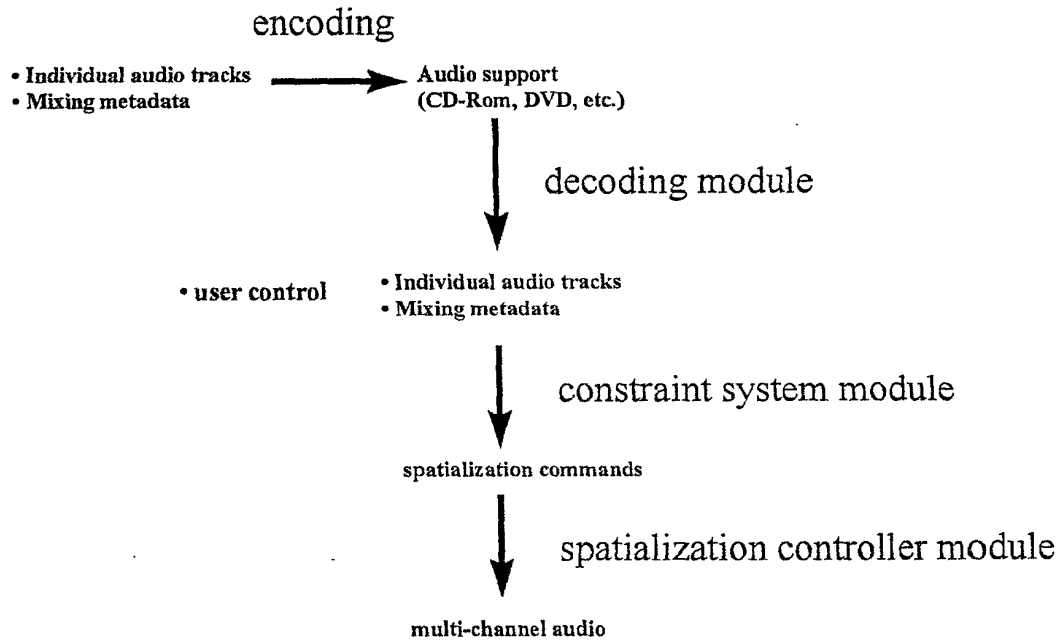


FIG.12

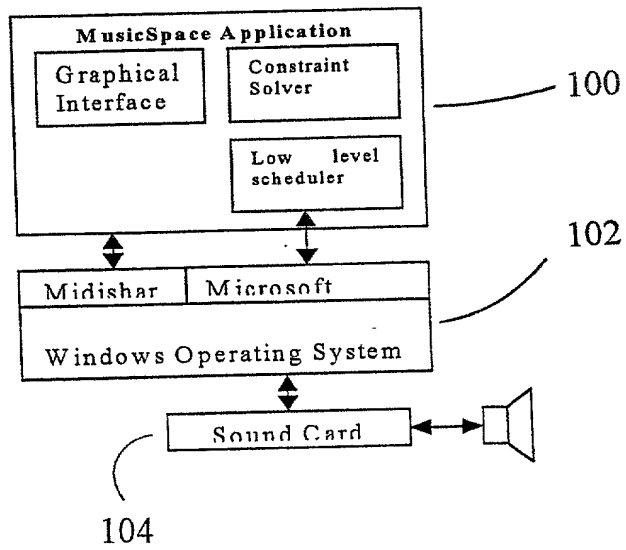


FIG.13

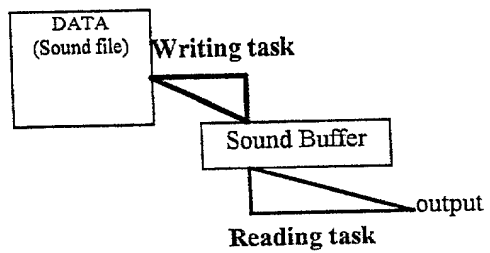


FIG.14

Notification messages occur when the reading position is at the beginning of the buffer or at

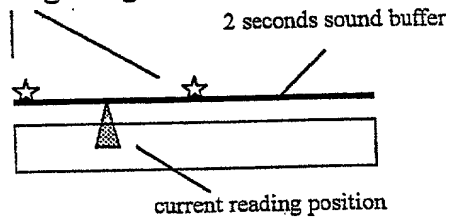
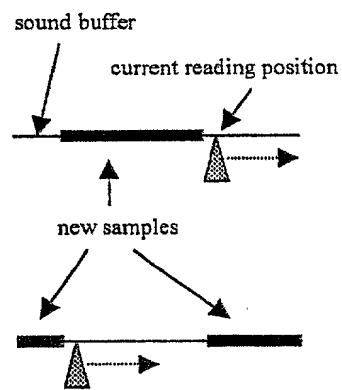


FIG.15

At wake up time, the writing task polls the position of the reading head and replaces half of the sound buffer with new samples



One second later, the writing task wakes up again and replaces the other half of the buffer with new samples.

FIG.16

